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NOTICE OF ALLOWANCE AND FEE(S) DUE

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PERKINS COIL PATENT-SEA	ELLP	HO, TU TU V						
P.O. BOX 1247				ART UNIT	PAPER NUMBER			
SEATTLE, WA 9	8111-1247	2818						
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APPLICATION NO.	FILING DATE	E FIRST NAME	ED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
09/944,246	08/30/2001	Setho.	Sing Fee	108298630US	1798			
TITLE OF INVENTION: PACKAGED MICROELECTRONIC DEVICES AND METHODS OF FORMING SAME								
APPLN. TYPE	SMALL ENTIT	Y ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE			
nonprovisional	NO	\$1330	\$300	\$1630	05/13/2004			
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THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with

licable fee(s), to: Mail

Mail Stop ISSUE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or]	<u>Fax</u>	(703) 746-4000	,iiiu 22010 1400		
INSTRUCTIONS: This fo appropriate. All further co- indicated unless corrected maintenance fee notification	rm should be used for tran rrespondence including the below or directed otherwise ns.	smitting the ISSU Patent, advance or in Block 1, by (a	JE FEE and ders and notice of specifying and specifical and specifying and specifical and specifying and specifying and specifying and specifical and specifying and specifical and specifying and specifical and specif	PUBLIC ification a new c	CATION FEE (if requ of maintenance fees v orrespondence address	ired). Blocks 1 through 4 s vill be mailed to the current and/or (b) indicating a sep-	hould be completed wh correspondence address arate "FEE ADDRESS"	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)					Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, m			
	590 02/13/2004				have its own certificate	e of mailing or transmission.		
PERKINS COIE LLP PATENT-SEA P.O. BOX 1247 SEATTLE, WA 98111-1247				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below.				
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ITOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/944,246	08/30/2001		Setho S	ing Fee		108298630US	1798	
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EXAMINER		ART UNIT		CI	LASS-SUBCLASS]		
HO, T	U TU V	2818		257-666000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. The equivalent indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	THE PATENT	Γ (print o	or type)			
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)								
Please check the appropriate	e assignee category or catego	ries (will not be pr	inted on the p	atent);		corporation or other private g	roup entity	
4a. The following fee(s) are enclosed: 4b. Payment of Fee(s):								
☐ Issue Fee			🗅 A check is	A check in the amount of the fee(s) is enclosed.				
			-	Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of Copies ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpays Deposit Account Number (enclose an extra copy of this form).					credit any overpayment copy of this form).			
Director for Patents is reque	ested to apply the Issue Fee a	nd Publication Fee	(if any) or to	re-apply	y any previously paid is	ssue fee to the application ide	entified above.	
(Authorized Signature) (Da								
NOTE; The Issue Fee another than the applicant;	d Publication Fee (if require a registered attorney or ag	ed) will not be ac ent; or the assigne	cepted from see or other p	anyone arty in	1			

interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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SEATTLE, W	SEATTLE, WA 98111-1247			2818	· · · · · · · · · · · · · · · · · · ·		
				DATE MAILED: 02/13/200	4		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application I	No.	Applicant(s)	
	09/944,246		FEE ET AL	
Notice of Allowability	Examiner		FEE ET AL.	
	Tu Tu Ho		2010	AW
	Tu-Tu Ho		2818	1 400
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS 5) or other appro RIGHTS. This ap	 CLOSED in this apprinte communication opplication is subject to 	plication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>RCE filed 08 Decem</u>				
2. The allowed claim(s) is/are <u>1-9,11-23,32-35,39,40 and 43</u>				
3. The drawings filed on 11 March 2003 are accepted by the		4407) (1) (5)		
 Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 	ider 35 U.S.C. §	119(a)-(d) or (f).		
 Certified copies of the priority documents hav 				
Certified copies of the priority documents hav				
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	ocuments have t	been received in this i	national stage applica	ition from the
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic priority users a claim for domestic priority users.			onal application).	
(a) The translation of the foreign language provisional				
6. Acknowledgment is made of a claim for domestic priority to	under 35 U.S.C.	99 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	of this communic f this application	cation to file a reply co	omplying with the requ NTH PERIOD IS NOT	uirements noted EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subi				NOTICE OF
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspe	erson's Patent D	rawing Review (PTO	-948) attached	
1) ☐ hereto or 2) ☐ to Paper No				•
(b) including changes required by the proposed drawing				
(c) including changes required by the attached Examine	er's Amendment	/ Comment or in the (Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should b	e written on the drawir	ngs In the front (not the	ə back) of
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLOG THE DEPOSIT	SICAL MATERIAL r OF BIOLOGICAL MA	nust be submitted. TERIAL.	Note the
Attachment(s)				
 1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5⊠ Information Disclosure Statements (PTO-1449), Paper No. 2 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	25. David Ne Supervisory Pate	4☐ Interview Summ 6☐ Examiner's Ame 8☒ Examiner's State 9☐ Other	al Patent Application (eary (PTO-413), Paper endment/Comment ement of Reasons for	r No
	Technology Ce			

U.S. Patent and Trademark Office PTOL-37 (Rev. 04-03 Application/Control Number: 09/944,246

Art Unit: 2818

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 08 December 2003 has been entered.

Allowable Subject Matter

2. Claims 1-9, 11, 39-40, 12-23, 32-35, and 43-45 (to be renumbered 1-31) are allowable over the prior art of record.

The examiner's statement of reasons for allowance was indicated in the office action mailed 17 April 2003.

Conclusion

- 3. Two references, result of an update search, made of record but not relied upon, are considered pertinent to applicant's disclosure. Copies of the references are not being furnished with this Office Action per MPEP § 707.05(a).
- a) U.S. Patent 6,516,516 to Lee and assigned to Hyundai Electronics Industries Co. discloses a semiconductor stackable chip package having clip-type, C-shaped outleads wherein

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Art Unit: 2818

the outer portion of each lead is in contact with top, side and bottom surface portions of the

package body.

b) U.S. Patent 6,518,659 to Glenn and assigned to Amkor Technology, Inc.

discloses a semiconductor stackable chip package having clip-type, C-shaped outleads wherein

the outer portion of each lead is in contact with top, side and bottom surface portions of the

package body; and wherein an upper surface of the body has a protruding key formed of an

encapsulant material and a bottom surface of the body has a key hole.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The

examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9306 for regular

communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1782.

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Tu-Tu Ho

February 12, 2004

David Nelms

Supervisory Patent Examiner Technology Center 2800 Page 3